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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/750,858	12/29/2000	Joseph M. Geigel	80677DMW	8939	
7590 03/23/2004		EXAMINER			
Thomas H. Close			NGUYEN, NHON D		
Patent Legal Sta	aff				
Eastman Kodak	Company		ART UNIT PAPER NUMBER		
343 State Street Rochester, NY 14650-2201			2174	3	
			DATE MAILED: 03/23/200-	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
. •	09/750,858	GEIGEL ET AL.				
Office Action Summary	Examiner	Art Unit				
	Nhon (Gary) D Nguyen	2174				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with the	e correspondence address				
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b).	NN. R 1.136(a). In no event, however, may a reply be to reply within the statutory minimum of thirty (30) or riod will apply and will expire SIX (6) MONTHS final tute, cause the application to become ABANDO	timely filed days will be considered timely. om the mailing date of this communication. NED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 1	6 December 2003.					
2a) ☐ This action is FINAL . 2b) ☑ 1	2a) ☐ This action is FINAL . 2b) ☑ This action is non-final.					
3) Since this application is in condition for allo	3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is					
closed in accordance with the practice und	er <i>Ex parte Quayle</i> , 1935 C.D. 11,	453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-27 is/are pending in the applicat	tion.					
4a) Of the above claim(s) is/are with						
5) Claim(s) 12,14,16,22,24 and 26 is/are allow	ved.					
6) Claim(s) <u>1-11, 13, 15, 17-21, 23, 25 and 27</u> is	/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction ar	nd/or election requirement.					
Application Papers						
9) The specification is objected to by the Exam	niner.					
10) The drawing(s) filed on is/are: a)	accepted or b)□ objected to by the	e Examiner.				
Applicant may not request that any objection to	the drawing(s) be held in abeyance. S	See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the cor		- · · ·				
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached Office	ce Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:	eign priority under 35 U.S.C. § 119	(a)-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the	·	ived in this National Stage				
application from the International But * See the attached detailed Office action for a	` ,	wod				
See the attached detailed Office action for a	iist of the certified copies not recei	veu.				
•						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summa					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB. 		Date I Patent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:	·····				
S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Offic	e Action Summary	Part of Paper No./Mail Date 8				

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DETAILED ACTION

- 1. This communication is responsive to Amendment A, filed 12/16/2003.
- 2. Claims 1-27 are pending in this application. Claims 1-8, 17, 18, and 27 are independent claims. In the Amendment A, claims 9-16 and 19-26 are amended. This action is made non-final.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1-9, 13, 15, 17-21, 23, 25, and 27 are rejected under 35 U.S.C. 102(e) as being anticipated by Koba (US 6,222,947).

As per independent claim l, Koba teaches a digital image album layout system comprising:

a page creator module having a first genetic engine operable to execute genetic evolution calculations on a first genetic population of image criteria, said page creator module having a page evaluation module operable to test said first genetic population for fitness to album preference criteria (col. 6, lines 43-59) and

an image placement module having a second genetic engine operable to execute genetic evolution calculations on a second genetic population of page layout criteria, said image

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placement module having a layout evaluation module operable to test said second genetic population for fitness to page preference criteria (col. 7, lines 37-41).

As per independent claim 2, Koba teaches an automated album layout method responsive to a set of inputs containing digital images, graphics, and other 2-dimensional objects, comprising the steps of:

evaluating a grouping of the image objects for distribution into a number of album pages according to a fitness function's parameters of a genetic engine (col. 6, lines 43-59);

assigning each image object to a page based on user preferences, including balance (col. 6, line 52 – col. 7, line 13);

displaying said page for user viewing, and refining the distribution based on further user action (S210 of fig. 4 and fig. 5C and 5G).

As per independent claim 3, Koba teaches an automated layout and presentation method responsive to a set of inputs containing digital images, graphics, and other two-dimensional objects, comprising the steps of:

evaluating the `x' and `y' position coordinates, scale, and rotation of each of the input images objects within a page according to fitness function parameters in a genetic engine (col. 7, lines 37-41);

creating a page layout based on user preferences including rotation (col. 7, lines 37-41);

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displaying said page layout for user viewing; refining said page layout based on further user action (S210 of fig. 4 and fig. 5C and 5G), and formatting the page layout printing (col. 8, lines 12-14).

As per independent claims 4, 5, and 6, they are rejected under the same rationale as claim 1.

As per independent claim 7, it is rejected under the same rationale as claim 4.

As per independent claim 8, Koba teaches a method of assigning a plurality of images, having image parameters, to one or more pages in an album, comprising the steps of:

specifying an initial set of page assignments defining the album page assignment for each of the plurality of images; initializing a genetic population by assigning said initial set of page assignments to genes within an album genome structure (col. 6, lines 43-45); evolving said genetic population in accordance with a genetic function to produce a present set of page assignments within said album genome structure (col. 6, lines 45-54);

calculating a present set of page criteria according to said present set of page assignments, the image parameters, and a set of album page parameters; testing said present set of page criteria according to an album fitness function to determine an album score; repeating said evolving and calculating steps if said album score fails to meet an album threshold value, and outputting image page assignments according to said present page assignment if said album score meets said album threshold value (col. 6, line 55 – col. 7, line 19).

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As per claim 9, which is dependent on claim 8, Koba teaches the image parameters include an image event value, image chronology value, and image emphasis value (col. 6, lines 7-42).

As per claim 13, which is dependent on claim 8, Koba teaches calculation of said page criteria includes calculation of an emphasis value range, a page count value, and a balance threshold value (col. 6, line 55 – col. 7, line 19).

As per claim 15, which is dependent on claim 8, Koba teaches the page criteria includes balance, emphasis, chronology, and unity (col. 6, lines 7-42 and col. 6, line 55 – col. 7, line 19).

As per independent claim 17, it is rejected under the same rationale as claim 1.

As per independent claim 18, Koba teaches a method of arranging one, or more images, having image parameters, on an album page, comprising the steps of:

specifying an initial set of positioning parameters for each of the one or more images; initializing a genetic population by assigning said initial set of positioning parameters as genes in a page genome structure; evolving said genetic population in accordance with a genetic function to produce a present set of positioning parameters within said page genome structure (col. 7, lines 20-36);

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calculating a set of present layout criteria, according to said present set of positioning parameters, the image parameters, and a set of page layout parameters; testing said present set of layout criteria according to a page fitness function to determine a page score; repeating said evolving and calculating steps if said page score fails to meet a page threshold value (col. 7, lines 37-47); and

outputting a page layout according to said present set of positioning parameters if said page score meets said page threshold value (col. 8, lines 1-14).

As per claim 19, which is dependent on claim 18, Koba teaches the image parameters include an image emphasis value (col. 7, lines 20-36).

As per claim 20, which is dependent on claim 18, Koba teaches the genome structure is an array (the layouts of pictures as in fig. 5F, for example, are arrays).

As per claim 21, which is dependent on claim 18, this claim is rejected under the same rationale as claim 20.

As per claim 23, which is dependent on claim 18, Koba teaches the layout criteria includes calculation of image rotation (col. 6, lines 8-20 and col. 7, lines 37-41).

As per claim 25, which is dependent on claim 18, Koba teaches the page criteria include white space range (col. 6, lines 8-20 and col. 7, lines 37-41).

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As per independent claim 27, it is rejected under the same rationale as claim 1.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 10 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Koba in view of Wang (US 6,014,458).

As per claim 10, which is dependent on claim 8, Koba does not disclose the genome structure is a tree structure. Wang discloses hierarchical tree structure for arranging images in document pages in and fig. 8, lines 27-45. It would have been obvious to an artisan at the time of the invention to use the teaching from Wang of the genome structure is a tree structure in Koba's system since it would allow a user to easily arrange and organize images in pages.

As per claim 11, which is dependent on claim 8, it is rejected under the same rationale as claim 10.

Allowable Subject Matter

7. Claims 12, 14, 16, 22, 24, and 26 are allowed.

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Response to Arguments

8. Applicant's arguments with respect to claims 1-11, 13, 15, 17-21, 23, 25, and 27 have been considered but are most in view of the new ground(s) of rejection.

Remarks

9. The term "genetic" means "of, relating to, or influenced by the origin or development of something". Therefore, the term "genetic", by itself, cannot be interpreted as "genetic programming" as the applicants claimed in the response.

Inquiries

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nhon (Gary) D Nguyen whose telephone number is 703-305-8318. The examiner can normally be reached on Monday - Friday from 8 AM to 5:30 PM with every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kristine L Kincaid can be reached on 703-308-0640. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nhon (Gary) Nguyen March 16, 2004 Bustine Vencaid

KRISTINE KINCAID

REPORT FXAMINER

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100